International application No.
PCT/JP2005/005311

A. CLASSIFICATION OF SUBJECT MATTER

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ A61K45/00-45/08, 31/00-31/80, 48/00, A61P1/00-43/00,

C12N15/00-15/09

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922–1996 Jitsuyo Shinan Toroku Koho 1996–2005 Kokai Jitsuyo Shinan Koho 1971–2005 Toroku Jitsuyo Shinan Koho 1994–2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
MEDLINE (STN), EMBASE (STN), BIOSIS (STN), BIOTECHABS (STN), CAplus (STN),
REGISTRY (STN), WPI (DIALOG), JSTPLUS (JOIS), JMEDPLUS (JOIS)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	WO 02/052007 A1 (LOCOMOGENE, INC.), 04 July, 2002 (04.07.02), Claims; examples; industrial applicability	1,2,7 3-6
X A	JP 2003-89647 A (Takada Seiyaku Kabushiki Kaisha), 28 March, 2003 (28.03.03), Full text	1,7 2-6
X A	WO 2003/018033 A1 (THE UNIVERSITY OF BRITISH COLUMBIA), 06 March, 2003 (06.03.03), Claims; examples	1,7 2-6

Ľ	Further documents are listed in the continuation of Box C.	Ľ	See patent family annex.	
*	Special categories of cited documents:	"T"	later document published after the international filing date or priority	
-A"	document defining the general state of the art which is not considered to be of particular relevance		date and not in conflict with the application but cited to understand the principle or theory underlying the invention	
"E"	earlier application or patent but published on or after the international filing date	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive	
"L"	document which may throw doubts on priority claim(s) or which is		step when the document is taken alone	
	cited to establish the publication date of another citation or other special reason (as specified)	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is	
"O"	document referring to an oral disclosure, use, exhibition or other means		combined with one or more other such documents, such combination	
"P"	document published prior to the international filing date but later than the	. &"	being obvious to a person skilled in the art	
	priority date claimed	œ	document member of the same patent family	
Date	of the actual completion of the international search	Dat	e of mailing of the international search report	
	30 May, 2005 (30.05.05)		14 June, 2005 (14.06.05)	
Nam	e and mailing address of the ISA/	Aut	horized officer	
	Japanese Patent Office			
Facsi	imile No.	Tele	ephone No.	
T 1	DCT/[\$4/210 (1-12004)			

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A COLUMBIA), 26 August, 2003 (26.08.03), Full text X JP 7-324035 A (LTT Institute Co., Ltd.), 1, 12 December, 1995 (12.12.95), Full text X JP 7-145062 A (LTT Institute Co., Ltd.), 2-Full text X W0 01/76630 A1 (Kyowa Hakko Kogyo Co., Ltd.), 2-Full text X W0 01/76630 A1 (Kyowa Hakko Kogyo Co., Ltd.), 2-Claims; examples X W0 01/21793 A1 (Nobuyuki MIYASAKA), 2-PMarch, 2001 (29.03.01), 2-Full text X W0 00/53194 A1 (Takada Seiyaku Kabushiki An Kaisha), 14 September, 2000 (14.09.00), Full text Y JP 2001-503785 A (ANGIOTECH PHARMACEUTICALS, 1,21 March, 2001 (21.03.01), 5-Full text X W0 00/38693 A1 (Toray Industries, Inc.), 3-Full text X W0 00/38693 A1 (Toray Industries, Inc.), 13,19 July, 2000 (06.07.00), 14-Full text X W0 01/51480 A1 (Takara Shuzo Kabushiki Kaisha), 13, 19 July, 2001 (19.07.01), 14-Full text					
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Ļ	CATTANEO, M., et al., Identification of a within SEL1L protein required for tumour inhibition. Gene, 2004, 326, pages 149 to (Disclosed are that tumour growth is inhiby SEL1L having Hrd3 motif and that inhibaction of tumour cell growth is weakened deletion mutant of SEL1L)	growth 5 156 bited 5 iting	1-7
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DOTAG LA	O (continuation of second sheet) (January 2004)		·

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Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
1. X Claims because The inve of the h (Article PCT) 2. Claims because	e they relate to parts of the international application that do not comply with the prescribed requirements to such an that no meaningful international search can be carried out, specifically:
	e they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box No. III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
o With a All the it appear is "pharm synovial On the or quote cla of claims of suppre (Continue 1. X As all reclaims. 2. As all so any add 3. As only	In Searching Authority found multiple inventions in this international application, as follows: respect to claims 1-7 and 13-20: inventions of claims 2-7 directly or indirectly quote claim 1, and its that the technical matter common to the inventions of claims 1-7 naceutical composition capable of suppressing the multiplication of cells" claimed in claim 1. There hand, all the inventions of claims 14-20 directly or indirectly im 13, and it appears that the technical matter common to the inventions is 13-20 is "pharmaceutical composition comprising a substance capable essing the production of interleukin 6" claimed in claim 1. There are sheet) required additional search fees were timely paid by the applicant, this international search report covers all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of itional fee. The required additional search fees were timely paid by the applicant, this international search report covers are claims for which fees were paid, specifically claims Nos.:
	nired additional search fees were timely paid by the applicant. Consequently, this international search report is and to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Pro	The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

Continuation of Box No. III of continuation of first sheet (2)

Although it appears that the technical matter common to the inventions of claims 1-7 and the inventions of claims 13-20 is a pharmaceutical composition per se, the pharmaceutical composition per se is a technical matter publicly known by persons skilled in the art to which the inventions pertain. Further, with respect to the "pharmaceutical composition capable of suppressing the multiplication of synovial cells" and "pharmaceutical composition comprising a substance capable of suppressing the production of interleukin 6" as well, they are a publicly known matter as respectively described in JP 2003-89647 A and WO 00/38693 A1, and hence this matter cannot be special technical features.

Consequently, these inventions cannot be stated as being linked with each other so as to form a single general inventive concept and hence fail to satisfy the requirement of unity of invention.

Therefore, it appears that the claims 1-7 and 13-20 claim the following two inventions not forming a single general inventive concept:

- 1) invention of claims 1-7, and
- 2) invention of claims 13-20.

With respect to claims 1-3, 7, 13-15, 19 and 20:

All the inventions of these claims relate to pharmaceuticals, and the active ingredients thereof are only defined by their functions.

However, since from provided description, what chemical structures give compounds with the functions cannot be stated as being obvious to even persons skilled in the art to which the inventions pertain, simply specifying of the functions is not sufficient to clarify what compounds are active ingredients.

Further, according to the contents of the description of this application, the compositions whose concrete results showing the functions are ascertained are only those containing nucleic acids specified in claims 4 to 6 and 16 to 18. Since there is no description as to those containing other ingredients, it does not appear that with respect to those as well, exhibiting of the same activity as mentioned in the description has been shown.

Therefore, in view of the way of drafting of claims 1-3, 7, 13-15, 19 and 20, the inventions of these claims are unclear. Further, in view of the way of drafting of the description, it cannot be stated that the description is sufficiently clear and complete for the inventions of the claims to be carried out by persons skilled in the art to which the inventions pertain, and it cannot be stated that the description is drafted so as to fully support the inventions of these claims (PCT Article 5 and Article 6).

(continued to next page)

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As the description of this application is lacking in the support for the inventions of these claims, it is to be noted that in the preparation of this international search report, prior art search has been limited to those whose active ingredients are nucleic acids specified in claims 4 to 6 and 16 to 18 and rational scope based on the contents of the description.